



Marley CBD BALM

Original

Batch ID: J9018CO
Production Date: Nov 6, 2019
Expiration Date: Ranges from
11/30/21 to 11/29/22
Batch Size: 13,011

Certificate of Analysis

POTENCY: CBD & THC[†]

Analyte	Acceptable Range	Result
CBD	≥ 40.0 mg	41.5 mg
Δ9-THC	None Detected (<.09 mg)	None Detected

MICROBIOLOGY[†]

Analyte	Acceptable Range	Result
Aerobic Bacteria	100000 CFU/g	None Detected
Bile-Tolerant Gram-Negative Bacteria	1000 CFU/g	None Detected
Coliforms	1000 CFU/g	None Detected
E. Coli	1 CFU/g	None Detected
Salmonella	1 CFU/g	None Detected
Yeast & Mold	10000 CFU/g	None Detected

HEAVY METALS^{**}

Analyte	Result
Arsenic	None Detected
Cadmium	None Detected
Lead	None Detected
Mercury	None Detected

RESIDUAL SOLVENTS[‡]

Analyte	Acceptable Range	Result
1,1,1-Trichloro-Ethane	< 1500 ppm	None Detected
1,1-Dichloro-Ethane	< 8 ppm	None Detected
1,2-Dichloro-Ethane	< 5 ppm	None Detected
Acetone	< 5000 ppm	None Detected
Acetonitrile	< 410 ppm	None Detected
Benzene	< 2 ppm	None Detected
Butane	< 5000 ppm	None Detected

Carbon-Tetrachloride	< 4 ppm	None Detected
Ethanol	< 5000 ppm	None Detected
Ethyl-Acetate	< 5000 ppm	None Detected
Ethyl-Ether	< 5000 ppm	None Detected
Heptane	< 5000 ppm	None Detected
Isopropanol	< 5000 ppm	None Detected
n-Hexane	< 290 ppm	None Detected
Pentane	< 5000 ppm	719.89 ppm [†]
Propane	< 5000 ppm	None Detected
Toluene	< 890 ppm	None Detected
Xylenes	< 2170 ppm	None Detected

PESTICIDES**	
Analyte	Result
Abamectin	None Detected
Aldicarb	None Detected
Bifenazate	None Detected
Cyfluthrin	None Detected
Daminozide	None Detected
Diazinon	None Detected
Dichlorvos	None Detected
Dimethoate	None Detected
Etoxazole	None Detected
Flonicamid	None Detected
Fludioxonil	None Detected
Imidacloprid	None Detected
Myclobutanil	None Detected
Paclobutrazol	None Detected
Piperonyl Butoxide	None Detected
Pyrethrin 1	None Detected
Spinosyn A	None Detected
Spinosyn D	None Detected
Spirotetramat	None Detected
Thiamethoxam	None Detected
Trifloxystrobin	None Detected

† Tests performed on finished product

‡ Tests performed on hemp-derived ingredient

* There are no established limits for pesticides or metals in topical product

+ Result based on weighted average of multiple ingredient lots



Chae International C/O Chae Organics 403H-63693

Submitted: 11/11/2019

Reported: 11/13/2019

Sample ID: 19R-5248-08

Matrix: HIP

Batch ID:

Metrc ID: 1A400071267E6AD000005464

Contact: Gwen Conner, marketingchae@gmail.com

MN 50mg Recovery Balm Bulk mfg 11-6-19 F9027-3 B#J9018 (THI.B 4of4,THI.C 1of2) .75oz FG 50mg

Potency Infused Product (13 Cannabinoids) Report

Cannabinoids	mg/Pkg	mg/serv
CBDVA	None Detected	None Detected
CBDV	None Detected	None Detected
CBDA	None Detected	None Detected
CBGA	None Detected	None Detected
CBG	None Detected	None Detected
CBD	41.5	41.5
THCV	None Detected	None Detected
CBN	None Detected	None Detected
d9-THC	None Detected	None Detected
d8-THC	None Detected	None Detected
CBL	None Detected	None Detected
CBC	None Detected	None Detected
THCA	None Detected	None Detected
Total Cannabinoids	41.5	41.5
Status	Pass	

COMMENTS

Matrices

FL = Flower HP = Hemp ED = Edible TP = Topical CN = Solventless Concentrate RCN = Remediated or Solvent-based Concentrate
HIP = Hemp Infused Product HPC = Hemp Concentrate

These results relate solely to the sample tested.

Testing conducted between the date that the sample was received and the date that the results were reported.

Analyzed by HPLC-DAD at (SOP 020 & 021) at Denver Lab. Report authorized by Lab Director or designee.

ASL warrants that all work performed conforms to the industry standards in effect for cannabis when services are rendered. ASL disclaims any implied warranties, except where such a disclaimer is prohibited by law, including any warrant of merchantability or fitness for a particular purpose.

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2120 S Birch St Denver, CO 80222

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Treehouse

Longmont, CO 80504

Lic. #



Sample:

METRC ID:

METRC Batch:

CC ID: 1909NCTL0511.2889

Strain: 0022-01-001

Sample Received: 09/19/2019; Report Created: 09/25/2019

0022-01-001

Concentrates & Extracts, Cannabinoid Isolate



Cannabinoids by HPLC, NCTL SOP-104

Analyte	LOQ	Mass	Mass
	µg	%	mg/g
THCa	0.00	<LOQ	<LOQ
Δ9-THC	0.00	<LOQ	<LOQ
Δ8-THC	0.00	<LOQ	<LOQ
THCV	0.00	<LOQ	<LOQ
CBDa	0.00	<LOQ	<LOQ
CBD	0.00	102.83	1028.3
CBDV	0.00	0.32	3.2
CBN	0.00	<LOQ	<LOQ
CBGa	0.00	<LOQ	<LOQ
CBG	0.00	<LOQ	<LOQ
CBC	0.00	<LOQ	<LOQ



Potency by HPLC, NCTL SOP-104

<LOQ	102.83%
Total THC	Total CBD

Date Tested: 09/25/2019

Summary

Pass Pesticides	Complete Residual Solvents	Pass Microbials	Not Tested NT Moisture
Not Tested NT Water Activity	Pass Heavy Metals	Not Tested Foreign Matter	Not Tested Mycotoxins

North Coast Testing Laboratories, LLC
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(234) 212-1860
Lic# MMCPL00010



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*Ohio OAC 3796 Limits. Water Activity by Water Activity Meter, NCTL SOP-108. Moisture by Moisture Analyzer, NCTL SOP-107. This product has been tested by North Coast Testing Laboratories, LLC (NCTL) in accordance with the laws of the State of Ohio. NCTL makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any analyte reported herein. Values reported relate only to the product tested. This Certificate shall not be reproduced, except in full, without the written consent of NCTL. Moisture by Moisture Analyzer, NCTL SOP-107. Samples collected by NCTL personnel were collected using sampling plan NCTL SOP-230, Marijuana Sampling.

Certificate of Analysis

Powered by Confident Cannabis
2 of 2

Treehouse

Longmont, CO 80504

Lic. #



Sample:

METRC ID:

METRC Batch:

CC ID: 1909NCTL0511.2889

Strain: 0022-01-001

Sample Received: 09/19/2019; Report Created: 09/25/2019

0022-01-001

Concentrates & Extracts, Cannabinoid Isolate

Pesticides by LCMSMS, NCTL SOP-102

Test Type	LOQ	OAC-3796 Limit*	Mass	Status
	PPB	PPB	PPB	
Abamectin	50,000	50,000	<LOQ	Pass
Aldicarb	5,000	20,000	<LOQ	Pass
Bifenazate	30,000	20,000	<LOQ	Pass
Cyfluthrin	50,000	10,000	<LOQ	Pass
Daminozide	30,000	50,000	<LOQ	Pass
Diazinon	5,000	10,000	<LOQ	Pass
Dichlorvos	50,000	150,000	<LOQ	Pass
Dimethoate	5,000	10,000	<LOQ	Pass
Etiozole	5,000	10,000	<LOQ	Pass
Flonicamid	30,000	30,000	<LOQ	Pass
Fludioxonil	10,000	10,000	<LOQ	Pass
Imidacloprid	5,000	20,000	<LOQ	Pass
Myclobutanil	50,000	50,000	<LOQ	Pass
Paclobutrazol	5,000	10,000	<LOQ	Pass
Piperonyl Butoxide	5,000	100,000	<LOQ	Pass
Pyrethrin 1	30,000	50,000	<LOQ	Pass
Spinosyn A	5,000	10,000	<LOQ	Pass
Spinosyn D	5,000	10,000	<LOQ	Pass
Spirotetramat	10,000	20,000	<LOQ	Pass
Thiamethoxam	5,000	20,000	<LOQ	Pass
Trifloxystrobin	5,000	10,000	<LOQ	Pass

Pass

Microbials by 3M Petrifilm, NCTL SOP-101

Test Type	OAC-3796 Limit*	Mass	Status
	CFU/g	CFU/g	
Aerobic Bacteria	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	1000	<LOQ	Pass
Coliforms	1000	<LOQ	Pass
E. Coli	1	<LOQ	Pass
Salmonella	1	<LOQ	Pass
Yeast & Mold	10000	<LOQ	Pass

Pass

Heavy Metals by ICPMS, NCTL SOP-103

Test Type	LOQ	OAC-3796 Limit*	Mass	Status
	PPM	PPM	PPM	
Arsenic	0.10	0.42	<LOQ	Pass
Cadmium	0.10	0.27	<LOQ	Pass
Lead	0.10	0.87	<LOQ	Pass
Mercury	0.10	0.87	<LOQ	Pass

Pass

Mycotoxins by GCMS, NCTL SOP-105

Test Type	LOQ	OAC-3796 Limit*	Mass	Status
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Not Tested

Residual Solvents by GCMS, NCTL SOP-105

Test Type	LOQ	OAC-3796 Limit*	Mass	Status
	PPM	PPM	PPM	
1,1,1-Trichloro-Ethane	0.16		<LOQ	Tested
1,1-Dichloro-Ethane	0.31		<LOQ	Tested
1,2-Dichloro-Ethane	0.16		<LOQ	Tested
Acetone	43.00		<LOQ	Tested
Acetonitrile	43.00		<LOQ	Tested
Benzene	0.16		<LOQ	Tested
Butane	43.00		<LOQ	Tested
Carbon-Tetrachloride	0.16		<LOQ	Tested
Ethanol	43.00		<LOQ	Tested
Ethyl-Acetate	43.00		<LOQ	Tested
Ethyl-Ether	43.00		<LOQ	Tested
Heptane	43.00		<LOQ	Tested
Isopropanol	43.00		<LOQ	Tested
n-Hexane	43.00		<LOQ	Tested
Pentane	43.00		725.93	Tested
Propane	43.00		<LOQ	Tested
Toluene	43.00		<LOQ	Tested
Xylenes	43.00		<LOQ	Tested

Complete

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Treehouse

Longmont, CO 80504

Lic. #



Sample:

METRC ID:

METRC Batch:

CC ID: 1908NCTL0319.1810

Strain: JD-041

Sample Received: 08/12/2019; Report Created: 08/14/2019

CBD Isolate

Concentrates & Extracts, Cannabinoid Isolate



Cannabinoids

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.02	<LOQ	<LOQ
Δ9-THC	0.02	<LOQ	<LOQ
Δ8-THC	0.02	<LOQ	<LOQ
THCV	0.02	<LOQ	<LOQ
CBDa	0.02	<LOQ	<LOQ
CBD	0.02	100.74	1007.4
CBDV	0.02	<LOQ	<LOQ
CBN	0.02	<LOQ	<LOQ
CBGa	0.02	<LOQ	<LOQ
CBG	0.02	<LOQ	<LOQ
CBC	0.02	<LOQ	<LOQ



Potency

ND	100.74%
Total THC	Total CBD

Summary

Pass Pesticides	Complete Residual Solvents	Pass Microbials	Not Tested NT Moisture
Not Tested NT Water Activity	Pass Heavy Metals	Not Tested Foreign Matter	Not Tested Mycotoxins

Certificate of Analysis

Powered by Confident Cannabis
2 of 2

Treehouse

Longmont, CO 80504

Lic. #



Sample:

METRC ID:

METRC Batch:

CC ID: 1908NCTL0319.1810

Strain: JD-041

Sample Received: 08/12/2019; Report Created: 08/14/2019

CBD Isolate

Concentrates & Extracts, Cannabinoid Isolate

Pesticides

Pass

Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	50.000	50.000	<LOQ	Pass
Aldicarb	5.000	20.000	<LOQ	Pass
Bifenazate	50.000	20.000	<LOQ	Pass
Cyfluthrin	50.000	10.000	<LOQ	Pass
Daminozide	50.000	50.000	<LOQ	Pass
Diazinon	5.000	10.000	<LOQ	Pass
Dichlorvos	50.000	150.000	<LOQ	Pass
Dimethoate	5.000	10.000	<LOQ	Pass
Etoazote	5.000	10.000	<LOQ	Pass
Flonicamid	50.000	50.000	<LOQ	Pass
Fludioxonil	10.000	10.000	<LOQ	Pass
Imidacloprid	5.000	20.000	<LOQ	Pass
Myclobutanil	50.000	50.000	<LOQ	Pass
Paclobutrazol	5.000	10.000	<LOQ	Pass
Piperonyl Butoxide	5.000	100.000	<LOQ	Pass
Pyrethrin 1	50.000	50.000	<LOQ	Pass
Spinosyn A	5.000	10.000	<LOQ	Pass
Spinosyn D	5.000	10.000	<LOQ	Pass
Spirotetramat	10.000	20.000	<LOQ	Pass
Thiamethoxam	5.000	20.000	<LOQ	Pass
Trifloxystrobin	5.000	10.000	<LOQ	Pass

Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
Aerobic Bacteria	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	1000	<LOQ	Pass
Coliforms	1000	<LOQ	Pass
E. Coli	1	<LOQ	Pass
Salmonella	1	<LOQ	Pass
Yeast & Mold	10000	<LOQ	Pass

Mycotoxins

Not Tested

Analyte	LOQ	Limit	Mass	Status
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Heavy Metals

Pass

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Arsenic	0.10	0.42	<LOQ	Pass
Cadmium	0.10	0.27	<LOQ	Pass
Lead	0.10	0.87	<LOQ	Pass
Mercury	0.10	0.87	<LOQ	Pass

Residual Solvents

Complete

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
1,1,1-Trichloro-Ethane	0.08	<LOQ	Tested	
1,1-Dichloro-Ethane	0.08	<LOQ	Tested	
1,2-Dichloro-Ethane	0.08	<LOQ	Tested	
Acetone	43.00	<LOQ	Tested	
Acetonitrile	43.00	<LOQ	Tested	
Benzene	0.08	<LOQ	Tested	
Butane	43.00	<LOQ	Tested	
Carbon-Tetrachloride	0.08	<LOQ	Tested	
Ethanol	43.00	<LOQ	Tested	
Ethyl-Acetate	43.00	<LOQ	Tested	
Ethyl-Ether	43.00	<LOQ	Tested	
Heptane	43.00	<LOQ	Tested	
Isopropanol	43.00	<LOQ	Tested	
n-Hexane	43.00	<LOQ	Tested	
Pentane	43.00	521.28	Tested	

